



SHEET 1 OF 25

FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark OfficeINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

1309.43669X00

SERIAL NO.

10/802,913

APPLICANT
Hiroshi SUZUKI et al.FILING DATE
March 18, 2004GROUP
2836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
		6	6	3	6	9	3	4					
		5	9	5	1	6	9	1	09/99	Ng et al			
		6	1	1	5	7	9	7	09/00	Kanda et al			
		6	1	7	3	3	6	0	1/01	Beardsley et al			
		6	5	5	3	4	0	8	4/03	Merrell et al			
		6	6	0	6	6	9	0	8/03	Padovano			
		6	7	7	2	3	6	5	8/04	Obara			
	2 0 0 4	0	1	6	2	9	4	0	8/04	Yagisawa et al			
	2 0 0 3	0	2	2	1	0	6	1	11/03	Ei-Batal			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		YES											
AA		0	8	4	4	5	6	1	5/98	European			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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								1309.43669X00	10/802,913
								APPLICANT Hiroshi SUZUKI et al.	
								FILING DATE March 18, 2004	GROUP 2836

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		6	1	0	8	7	4	8					
		6	5	1	0	4	9	1	08/00	Ofek et al			
		6	6	5	1	1	3	7	1/03	Franklin et al			
		6	7	0	8	2	3	2	11/03	Baek et al			
		5	5	4	6	5	5	8	03/04	Obara et al			
		5	5	4	6	5	5	8	8/96	Jacobson et al			

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
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		AA	1	3	1	5	0	7	4	5/03	European			YES

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A		2	0	1	9	3	7	6	0	9/04	Matsunami et al			
		2	0	1	9	9	5	1	5	10/04	Penny et al			
		2	0	1	3	8	7	0	5	9/02	Suzuki et al			
		2	0	2	2	1	0	7	7	11/03	Ohno et al			
		2	0	0	1	0	6	6	2	1/04	Aruga			
		7	0	8	0	2	0	1	7/06	Suzuki, et al				

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A	2 0 0 4	0	1	2	8	6	2	7	7/04	Zayas			
	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire			
	2 0 0 4	0	0	1	0	6	6	0	1/04	Konshak et al			
	2 0 0 4	0	0	7	8	7	0	7	4/04	Apperley et al			
	2 0 0 4	0	0	7	3	7	4	7	4/04	Lu			
	2 0 0 4	0	1	7	7	2	1	8	9/04	Meehan et al			

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		5	6	0	3	0	0	3					
	A	5	8	6	7	7	3	6	2/97	Akizawa et al			
		5	8	8	4	0	9	8	2/99	Jantz			
		5	8	8	4	0	9	8	3/99	Mason, Jr.			
		6	2	1	9	7	5	2	4/01	Sekido			
		6	2	2	3	2	4	9	4/01	Kato et al			
		6	5	4	9	9	7	8	5/03	Mansur et al			
		6	6	4	0	2	7	8	10/03	Nolan et al			
		6	6	8	4	2	9	5	1/04	Fujimoto et al			
		6	7	4	5	2	8	7	6/04	Fujimoto et al			
		6	2	0	1	6	9	2	3/01	Gamble et al			

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
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	A	2	0	0	2				11/02	Japan			
	A	2	0	0	4				6/04	Japan			

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	6 8 3 1 8 3 9	6	8	3	1	8	3	9	12/04	Bovell			
	6 0 6 1 7 5 0	6	0	6	1	7	5	0	5/00	Beardsley et al			
	6 7 6 3 4 3 6	6	7	6	3	4	3	6	7/04	Gabber et al			
	6 7 9 2 4 8 6	6	7	9	2	4	8	6	9/04	Hanan et al			
	6 1 3 7 6 7 9	6	1	3	7	6	7	9	10/00	Chang			
	6 3 5 1 3 7 5	6	3	5	1	3	7	5	2/02	Hsieh et al			
	6 4 8 4 2 3 6	6	4	8	4	2	3	6	11/02	Fujimoto et al			
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	6 7 2 8 9 2 2	6	7	2	8	9	2	2	4/04	Sundaram et al			
	5 4 7 5 8 1 4	5	4	7	5	8	1	4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
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Ak	2 1 8 8 8 3 5	7/90	Japan										

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Ak	IBM Technical Disclosure Bulletin vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.
	Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V.), R E Dessey, "Computer Connections", pp. 53-62.

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		6	6	5	8	5	9	2	12/03	Cohen et al			
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		6	1	5	4	8	5	0	11/00	Idleman et al			
		6	4	0	0	7	3	0	6/02	Latif, et al			

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AK		2	0	0	9	7	5	0	4	5/03	Oeda et al			
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		2	0	1	9	6	0	0	2	10/03	Nakayama et al			
		2	0	1	9	6	1	4	7	10/03	Hirata et al			
		2	0	2	0	4	6	7	1	10/03	Matsunami et al			

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AK	2 0 0 1	11/01	Yamanashi et al			
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	2 0 0 1	12/01	Ninomiya et al			
	2 0 0 2	10/02	Talagala			
	2 0 0 3	2/03	Rauscher			
	2 0 0 3	9/03	Kennedy			
	2 0 0 4	6/04	Parry et al			
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A	2 0 0 3									11/03	EI-Batal et al			
	2 0 0 3	2	0	0	4	1	2	7	8	2/03	Lin			
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FOREIGN PATENT DOCUMENTS

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		2 0 0 1	0	0	1	9	5	0	9	9/01	Aho et al			
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		2 0 0 4	0	1	3	9	2	6	0	7/04	Steinmetz			
		2 0 0 4	0	1	4	8	3	2	9	7/04	Ogasawara et al			

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		0	0	0	1	3	1	2	9	1	7/03	Morrison et al			
		0	0	0	1	6	7	4	3	9	9/03	Talagala et al			
		0	0	0	9	7	4	8	7		5/03	Rietze et al			
		0	0	0	1	1	1	4	8	5	6/04	Mimatsu et al			
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	6	6	8	4	2	8	2	1/04	Kocis			
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2 0 0 2	0	0	1	9	8	9	7	2/02	Cruyningen			
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		2	0	2	3	6	9	0	8		11/04	Suzuki et al			
		2	0	1	1	0	3	3	0		6/03	Fujie et al			
		5	8	4	5	3	1	9	12/98			Yorimitsu			
		2	0	1	4	9	8	4	0		8/03	Bolt, et al			

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	Serial Attached SCSI and Serial ATA Compatibility, Intel, 2002, pp. 1-8.
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<i>J</i>	2 0 0 2	0	1	4	7	9	4	5	10/02	Fox et al				
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		6	2	4	0	4	8	6	5/01	Ofek et al				

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<i>AA</i>	1	0	3	0	1	7	2	0	11/98	Japan				Eng. Trans

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									APPLICANT Hiroshi SUZUKI et al.	
									FILING DATE March 18, 2004	GROUP 2836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DAT IF APPROPRU
<i>AK</i>		2	0	1	1	1	5	6	0		Takase et al			
		2	0	2	6	7	5	1	6		Jibbe et al			
		2	0	0	2	7	9	0	0		Pettey			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
<i>AK</i>		2	1	5	0	7	4	6		05/02	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AK EMC 2-Gigabit Disk-Array Enclosure EMC Corporation (DAE2), FC and ATA Models,
Hardware Reference P/N 014003048, Rev A02

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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March 18, 2004GROUP
2836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR	
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A	X	2	0	1	1	7	4	6	8	06/05	Kano et al				
		2	0	1	2	0	2	6	3	06/05	Kano et al				
		2	0	1	2	0	2	6	4	06/05	Kano et al				
		2	0	1	5	4	9	4	2	7/05	Kano et al				
		6	2	8	2	6	0	2	8/01	Blumenau et al					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
		YES	XX												
A	X	0	9	3	3	0	1	8	4	12/97	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
<i>AK</i>		2	0	2	1	6	6	2	4	9/05	Deng et al	710	074	
		0	0	0	0	2								
		2	0	1	6	2	0	4	8	10/02	Ackaret et al			
		0	0	0	0									
		6	7	6	3	4	0	9	7/04	Elliott				
		6	0	3	7	7	3	8	3/00	Morita et al	318	625		
		6	4	4	9	7	0	9	9/02	Gates				
		5	8	2	2	7	8	2	10/98	Humlcek et al				
		5	8	1	2	7	5	4	9/98	Lui et al				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
<i>AK</i>		2	3	3	7	8	6	8		12/01	Japan			XX
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		1												
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										APPLICANT Hiroshi SUZUKI et al.	
										FILING DATE March 18, 2004	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
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A		2	0	0	6	2	4	5	4	5/02	Fung			
		2	0	1	8	9	8	1	1	10/03	Peeke et al			
		2	0	1	3	5	5	7	7	7/03	Weber et al			
		2	0	1	1	7	5	1	7	6/04	Beauchamp et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		YES												

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A		ESG Product Brief EMC, March 2003, CLARiON with ATA, pp. 1-2.
EXAMINER	DATE CONSIDERED	

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									1309.43669X00	10/802,913
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
<i>AA</i>	2	0	0	1	4	9	5	6	8/01	Nagata et al			
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
													YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>AA</i>	EMC CLARiiON Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker DiskBackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.
<i>AA</i>	EMC CLARiiON Backup Storage Solutions Backup-to-disk Guide with Computer Associates, BrightStor ARCServe Backup, Engineering White Paper, 4/16/2003, pp. 1-24.
<i>AA</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
<i>AA</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
<i>AA</i>	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with Computer Associates BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

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(Form PTO-1449 [6-4])

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 1309.43669X00	SERIAL NO. 10/802,913
LIST OF DOCUMENTS CITED BY APPLICANT <i>(Use several sheets if necessary)</i>		APPLICANT H. Suzuki, et al	
		FILING DATE March 18, 2004	GROUP 2836

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EXAMINER INITIAL	DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If Appropriate)
AA	6,763,409	07/13/04	Elliott, Stephen J.			
	AB 5,812,754	09/22/98	Liu et al			
	AC 5,432,046	06/06/95	Nunnelley et al			
	AD 5,848,282	12/08/98	Kang et al			
	AE 2002/ 062454	05/23/02	Fung, Henry T.			
AA	AF 5,805,788	09/08/98	Johnson			
AA	AG 2004/ 0221101	11/04/04	Voorhees et al			
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

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	AP						<input type="checkbox"/>	<input type="checkbox"/>

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AR	AA	Judd, Ian, "Device Services Interface", Online, June 19, 1996, pp. 1-8.
AS		"Veritas Volume Manager Storage Administrator 3.2, Administrator's Guide", Veritas Software Corporation, Online, July, 2001, pp. 1-184.
AT	AA	Synetic Inc., SyneRAID -800SA, SCSI/Fibre-toSATA RAID Subsystem product information, available at: http://www.synetic.net/Synetic-Products/SyneRAID-Units/SyneRAID-800SATA/SyneRAID-800SA.html
	AA	"SATA Disk System and Expansion of Unit offer 3.5 TB storage", Product News Network, Nov. 1, 2004.

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AJ	AA 2002/ 0069317	06/06/02	Chow et al			
	AB 2002/ 0069334	6/06/02	Hsia et al			
	AC 2003/ 0031187	02/13/03	Heffernan et al			
	AD 2003/ 00221061	11/27/03	El-Batal et al			
	AE 2004/ 0010660	01/15/04	Konshak et al			
	AF 2004/ 0034731	02/19/04	Sivertsen			
	AG 2004/ 0193791	09/30/04	Felton et al			
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

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	AP					<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AR	X	SGI InfiniteStorage TP9300S Storage Array, Data Sheet, available at: http://www.sgi.com/pdfs/3643.pdf
AS	X	Adaptec FS4500 Fibre to SATA RAID, Data Sheet, available at: http://www.sunstarco.com/PDF%20Files/Adaptec%20FS4500%20SATA.pdf
AT		

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A	AA 2005/0138154	06/23/05	Seto			
	AB 2005/0097132	05/05/05	Cochran et al			
	AC 2004/0148460	07/29/04	Steinmetz et al			
	AD 6,834,326	12/21/04	Wang et al			
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	AF					
	AG					
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	AJ					
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	AP					<input type="checkbox"/> <input type="checkbox"/>

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AR	AA	Infortrend EonStor A16F-R1211/S1211 FC-to-SATA RAID Subsystem product information, available at: http://www.infortrend.com/2_product/a16f-r(s)1211.asp
AS		
AT		

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